

Session Program

17-24 Jul 2024

ICHEP 2024

Neutrino Physics

Prague

Thursday 18 July

08:30

Neutrino Physics: Oscillations

Session | **Location:** Panorama | **Convener:** Viktor Pec

08:30–08:45 **Latest oscillation results from Daya Bay**

Speaker

Jinjing Li

08:45–09:00

New results of reactor antineutrino oscillation amplitude and frequency using 3800 days of RENO data

Speaker

Sanghoon Jeon

09:00–09:15

Reactor flux and spectrum measurement with the Daya Bay full data set

Speaker

Mr Jinhao Huang

09:15–09:30 **Recent results from the DANSS experiment**

Speaker

Mark Shirchenko

09:30–09:45 **ICARUS at the Short-Baseline Neutrino program: first results**

Speaker

Lea Di Noto

09:45–10:00

Latest results from MicroBooNE's Low Energy Excess Search and Constraints on eV-Scale Sterile Neutrino Oscillations

Speaker

Miquel Nebot-Guinot

10:00–10:15 **Status of the Short-Baseline Near Detector at Fermilab**

Speaker

Rodrigo Alvarez-Garrote

10:15

10:45

Neutrino Physics: Oscillations

Session | **Location:** Panorama | **Convener:** Viktor Pec

10:45–11:00 **Measurement of the Solar pp Neutrino Flux in PandaX-4T**

Speaker

Xiaoying Lu

11:00–11:15 **T2K Neutrino Oscillation Analysis**

Speaker

Denis CARABADJAC

11:15-11:30

Neutrino Oscillation Analysis with Combined Data from Super-Kamiokande and T2K**Speaker**

Jianrun HU

11:30-11:45

A New Measurement of Neutrino Oscillations at NOvA**Speaker**

Kathryn Sutton

11:45-12:00

T2K+NOvA Joint Measurement of Neutrino Oscillation Parameters**Speaker**

Tomas Nosek

12:00-12:15

Tau neutrino appearance and the measurement of the neutrino mass-ordering at Super-Kamiokande**Speaker**

Maitrayee Mandal

12:15-12:30

Neutrino oscillation physics in JUNO**Speaker**

Steven Calvez

12:30

14:30

Neutrino Physics: Oscillations and Interactions**Session** | **Location:** Panorama | **Convener:** Tomas Nosek

14:30-14:45

The Deep Underground Neutrino Experiment (DUNE) Program**Speaker**

Ines Gil Botella

14:45-15:00

The IceCube Upgrade: status and prospects for new advances with GeV neutrinos**Speaker**

Nora Feigl

15:00-15:15

Exploring tau neutrino appearance measurements in KM3NeT/ORCA**Speaker**

Dr Chiara F Lastoria

15:15-15:30

Measurement of atmospheric neutrino oscillations with KM3NeT/ORCA**Speaker**

Alfonso Lazo Pedrajas

15:30-15:45

Enhanced search for CP violation in leptons with the new intermediate water cherenkov detector and improved J-PARC neutrino beam in the Hyper-Kamiokande Experiment.**Speaker**

Takeshi Nakadaira

15:45-16:00

Low- ν : a tale of two energies**Speaker**

Callum David Wilkinson

16:00-16:15

Quasielastic Lepton-Nucleus Scattering and the Correlated Fermi Gas Model**Speaker**

Prof. Gil Paz

16:15

16:45

Neutrino Physics: Interactions**Session** | **Location:** Panorama | **Convener:** Callum David Wilkinson

16:45-17:00

MicroBooNE Electron-Neutrino Cross-Section Results**Speaker**

Marina Guzzo

17:00-17:15

MicroBooNE cross section results from muon neutrino inclusive and pionless channels**Speaker**

Richard Diurba

17:15-17:30

MicroBooNE cross section results from muon neutrinos with pions in the final state and rare processes**Speaker**

Michael Kirby

17:30-17:45

Triple Differential Muon Antineutrino Charge Current Inclusive Cross Section Measurement in NOvA**Speaker**

Prabhjot Singh

17:45-18:00

Neutrino cross-section results from T2K**Speaker**

Daniel Cherdack

18:00-18:15

Status of Measuring Cross Sections of Hadrons on Argon with ProtoDUNE-SP**Speaker**

Jingyuan Shi

18:15-18:30

Results from TeV Neutrinos at the FASER Experiment**Speaker**

Sergey Dmitrievsky

18:30

Friday 19 July

08:30

Neutrino Physics: Interactions

Session | **Location:** Panorama | **Convener:** Juan Pedro Ochoa Ricoux

08:30–08:45

Study of proton-nucleus interactions with the DsTau/NA65 experiment at the CERN-SPS

Speaker

Dr Akitaka Ariga

08:45–09:00

Hadron Production Measurements at NA61/SHINE for Neutrino Oscillation Experiments

Speaker

Kyle Allison

09:00–09:15

The Pioneering Contributions of the ANNIE Experiment at Fermilab

Speaker

Marvin Ascencio Sosa

09:15–09:30

NuMI @ ICARUS: Flux, Cross Section, and BSM Physics

Speaker

Daniel Cherdack

09:30–09:45

The CONUS+ experiment

Speaker

Christian Buck

09:45–10:00

New results on searches for CEvNS and Physics beyond the Standard Model using Skipper-CCDs at CONNIE

Speaker

Irina Nasteva

10:00–10:15

Probing Physics within and beyond the Standard Model with coherent neutrino nucleus elastic scattering at the Kuo-Sheng Reactor Neutrino Laboratory with the TEXONO Experiment

Speaker

Dr Manoj Kumar Singh

10:15

10:45

Neutrino Physics: Neutrino Mass

Session | **Location:** Panorama | **Convener:** Rhiannon Susan Jones

10:45–11:00

Search for neutrinoless double beta decay with the NEXT experiment

Speaker

Brais Palmeiro

11:00-11:15

Towards the AMoRE II Experiment: Neutrinoless double-beta decay search with 100 kg of 100Mo**Speaker**

Wootae Kim

11:15-11:30

Searching for neutrinoless double-beta decay with CUPID**Speaker**

Mr Vladyslav Berest

11:30-11:45

Status of the SuperNEMO Demonstrator and Analysis of First Data**Speaker**

Xalbat Aguerre

11:45-12:00

R2D2: a xenon TPC for neutrinoless double beta decay search**Speaker**

Anselmo Meregaglia

12:00-12:15

LEGEND-200: first steps towards the hunt for $0\nu\beta\beta$ **Speaker**

Mariia Redchuk

12:15-12:30

Beyond the N1-dominated leptogenesis with the smallest modular finite group**Speaker**

Simone Marciano

12:30

14:30

Neutrino Physics: Mass + Astro + SND@LHC**Session** | **Location:** Panorama | **Convener:** Viktor Pec

14:30-14:45

Latest results from the CUORE experiment**Speaker**

Alice Campani

14:45-15:00

Probing the effective electron anti-neutrino mass with KATRIN**Speaker**

Christoph Wiesinger

15:00-15:15

Tackling the experimental challenge to detect relic neutrinos from the Big Bang with Ptolemy**Speaker**

Dr Federico Virzi

15:15-15:30

Astrophysical neutrino search in KamLAND**Speaker**

Mr Minori Eizuka

15:30-15:45

The Pierre Auger Observatory - Overview of ultra-high-energy neutrino searches**Speaker**

Denise Boncioli

16:15

15:45-16:00

Recent results from the SND@LHC experiment**Speaker**

Riddhi Biswas

16:45

Neutrino Physics: Detection**Session** | **Location:** Panorama | **Convener:** Rhiannon Susan Jones

16:45-17:00

Decipher the Quantum Behavior of Neutrinos with DUNE PRISM**Speaker**

Cristovao Vilela

17:00-17:15

MicroBooNE Detector Physics Measurements and Calibrations**Speaker**

Vincent Basque

17:15-17:30

Advancements in LArTPC event reconstruction on MicroBooNE data**Speaker**

Maria Brigida Brunetti

17:30-17:45

Triggering First SBND Events**Speaker**

Tereza Kroupova

17:45-18:00

The ND280 upgrade of the T2K Experiment**Speaker**

Shivam Ashish Joshi

18:00-18:15

Deep Learning Event Reconstruction at NOvA**Speaker**

Wenjie Wu

18:15-18:30

Status of JUNO's Taishan Antineutrino Observatory**Speaker**

Dr Ruhui Li

18:30

Saturday 20 July

08:30

Neutrino Physics: Theory and Pheno

Session | **Location:** Panorama | **Convener:** Dr Antonio Enrique Cárcamo Hernández

08:30–08:45 **Multi-Messengers Neutrino Scattering on Ultra-Relativistic CvB**

Speaker

Maria Petropavlova

08:45–09:00

Synergistic effects in enhancing octant and mass ordering sensitivity in the presence of a sterile neutrinos

Speaker

Mr Supriya Pan

09:00–09:15

Novel Aspects of Neutrino oscillations

Speaker

Prof. Fedor Simkovic

09:15–09:30

Dynamical scoto-seesaw mechanism with gauged B-L symmetry

Speaker

Soumya Sadhukhan

09:30–09:45

Phenomenology of Scotogenic 3-loop Neutrino Mass Models

Speaker

Tessio de Melo

09:45–10:00

Simplified models of $d=7$ lepton number violation

Speaker

Kare Fridell

10:15

10:45

Neutrino Physics: Theory and Pheno and BSM

Session | **Location:** Panorama | **Convener:** Dr Antonio Enrique Cárcamo Hernández

10:45–11:00

How is CP violation in thermal leptogenesis connected to CP violation in neutrino oscillations?

Speaker

Zhi-zhong Xing

11:00–11:15

Impact of mixed scattering processes on leptogenesis within hybrid seesaw framework

Speaker

Tirtha Sankar Ray

11:15–11:30

Neutrino Masses from a Hybrid Type I + III Inverse Seesaw Mechanism in $U(1)_{R-L}$ -symmetric MSSM

Speaker

Cem Murat Ayber

11:30–11:45

On the Implications of $|U_{\mu i}| = |U_{\tau i}|$ in the Canonical Seesaw Mechanism**Speaker**

Jianlong Lu

11:45–12:00

MicroBooNE's Search for Anomalous Single-Photon Production**Speaker**

Xiao Luo

12:00–12:15

Highlights of nucleon decay searches at JUNO**Speaker**

Yuyi Wang

12:30

14:30

Neutrino Physics: BSM and ESSvSB+**Session** | **Location:** Panorama | **Convener:** Juan Pedro Ochoa Ricoux

14:30–14:45

An Improved Search for Unstable Sterile Neutrinos at IceCube**Speaker**

Philip Weigel

14:45–15:00

First measurement of light sterile neutrino mixing parameters with KM3NeT/ORCA**Speaker**

Louis Bailly-Salins

15:00–15:15

First results from the SoLid experiment at BR2**Speaker**

Frédéric YERMIA

15:15–15:30

Probing Physics Beyond the Neutrino Mass at the KATRIN Experiment**Speaker**

Caroline Fengler

15:30–15:45

Constraining new physics with Coherent Elastic Neutrino-Nucleus Scattering experiments.**Speaker**

Gonzalo Sanchez Garcia

15:45–16:00

The European Spallation Source neutrino Super Beam plus (ESSvSB+) Project**Speaker**

Alessio Giarnetti

16:15

16:45

Neutrino Physics: New Tech

Session | **Location:** Panorama | **Convener:** Callum David Wilkinson

16:45–17:00

Final design of the ENUBET monitored neutrino beam and its implementation at CERN

Speaker

Anselmo Mereaglia

17:00–17:15

Overview and Status of the 2x2 NDLaR Demonstrator: A Pixel-Based LArTPC Prototype for the DUNE Near Detector

Speaker

Karolina Wresilo

17:15–17:30

Prototyping the SoLaR LArTPC Technology for Detecting MeV-Scale Neutrinos

Speaker

Richard Diurba

17:30–17:45

CLOUD: the first reactor antineutrino experiment using the novel LiquidO detection technology

Speaker

Diana Navas

17:45–18:00

SuperChooz Pathfinder

Speaker

Dr Anatael CABRERA

18:00–18:15

Status and Prospects of the Water Cherenkov Test Experiment (WCTE)

Speaker

Diego Costas Rodriguez

18:15–18:30

Research and Development of Jinping Neutrino Experiment

Speaker

Wentai Luo

18:32